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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2019/2020

MID1093 – RAPID MODELLING

(All sections / Groups)

21 OCTOBER 2019

9.00 a.m – 11.00 a.m

(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This Question paper consists of 2 pages with 5 questions only.
2. Answer **FOUR** out of **FIVE** questions. All questions carry equal marks and the distribution of the marks for each question is given.
3. Please write all your answers in the Answer Booklet provided.

1. Discuss what rapid prototyping is?
(10 marks)
(Total 10 marks)

2. A) Discuss 3 usage of rapid prototyping
(6 marks)

B) List 4 industries that applying the rapid prototyping technology.
(4 marks)

(Total 10 marks)

3. Discuss what concept modeler is?
(10 marks)
(Total 10 marks)

4. A) **True or False:** Indicate wheatear the following statements are **true or false**.
 - i. JP System 5 (JP5): JP System 5 builds model from CAD data using label paper and a knife plotter.

 - ii. Ballistic Particle Manufacturing (BPM): latest RP technology using printed ink models by firing micro droplets of colored liquid from a moving jet onto a stationary platform.

 - iii. The Model Maker (MM): produce highly accurate wax patterns using ink-jet printing technology with molten wax.

 - iv. Multi Jet Modeling (MJM): produce wax prototypes using inkjet technology.

 - v. Direct Shell Production (DSP): Based on 3DP using polymer as the primary build material.

 - vi. ZCorp Z402 system: 3D printing using industrial clay material and is very fast.
(6marks)

B) List 4 technologies that falls under functional modeler

(4marks)

(Total 10marks)

Continued

5. A). Explain what SLA is and how its works.

(6 marks)

B). What is SLA main applications?

(4marks)

(Total 10marks)

End of Page.